HOTEL RESERVATION SYSTEM

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GROUP 4

Agenda

01 Business Background

02 Swim Lane Diagram

03 Data Model

04 Use Cases & Business Metrics

05 Learning & Conclusion

Marriott INTERNATIONAL | GLOBAL SOURCE
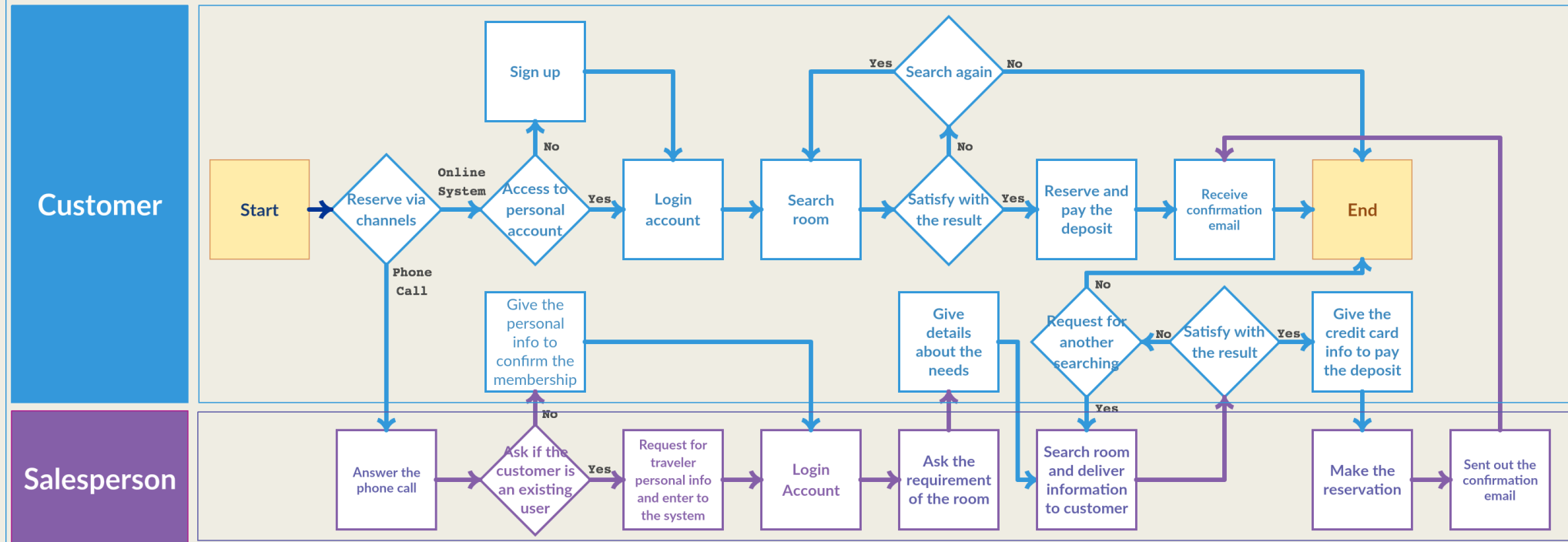
🔒 **1.2 M Rooms**

🏠 **6500 Properties**

💼 **127 Countries**

We are the largest hotel chain in the world, with more than 6,500 properties and over 1.2 million rooms in 127 countries around the world.
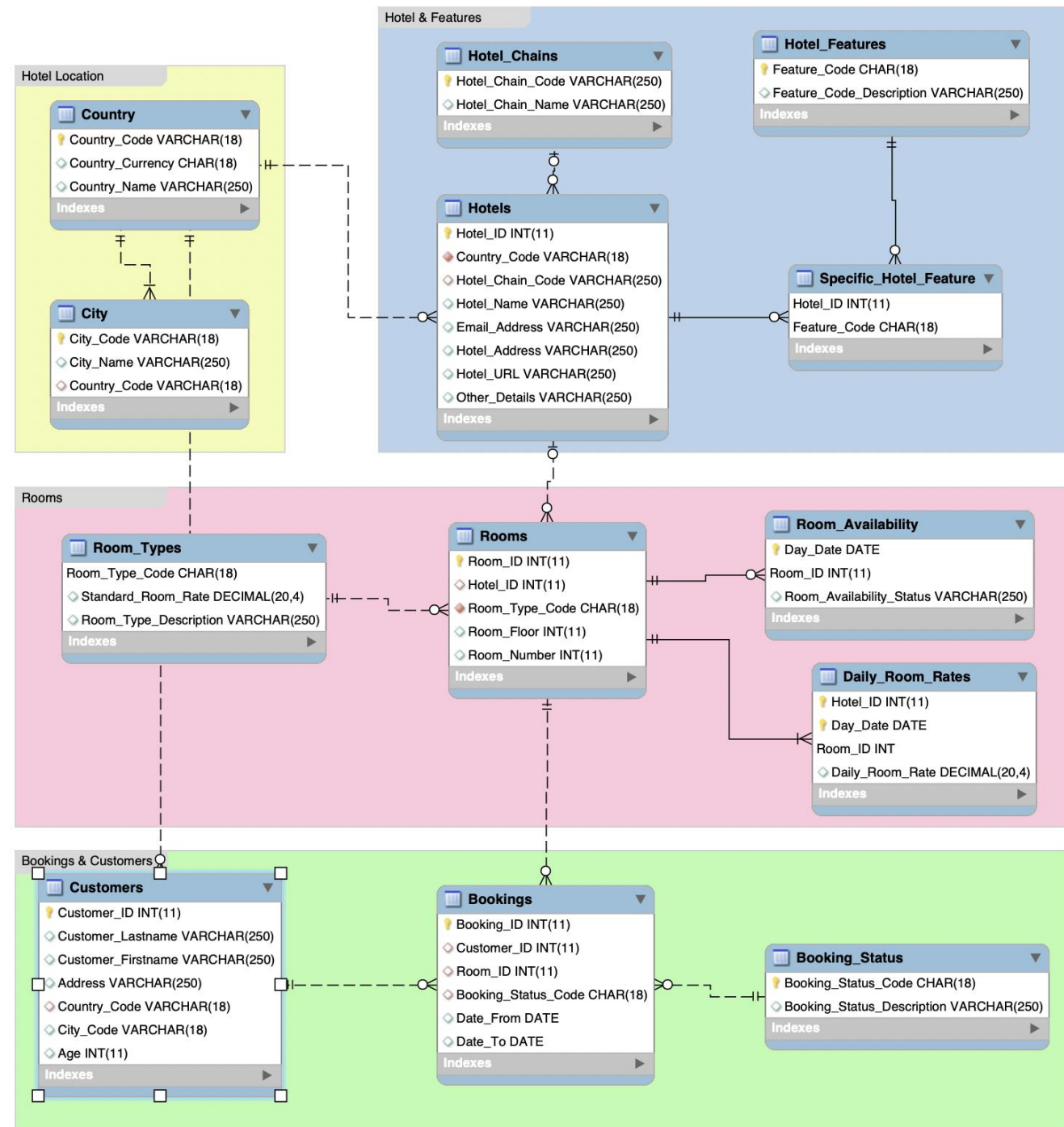
Using generic reservation system to organize booking will fasten our business and empower centralized management.

Swim Lane Diagram

Data Model
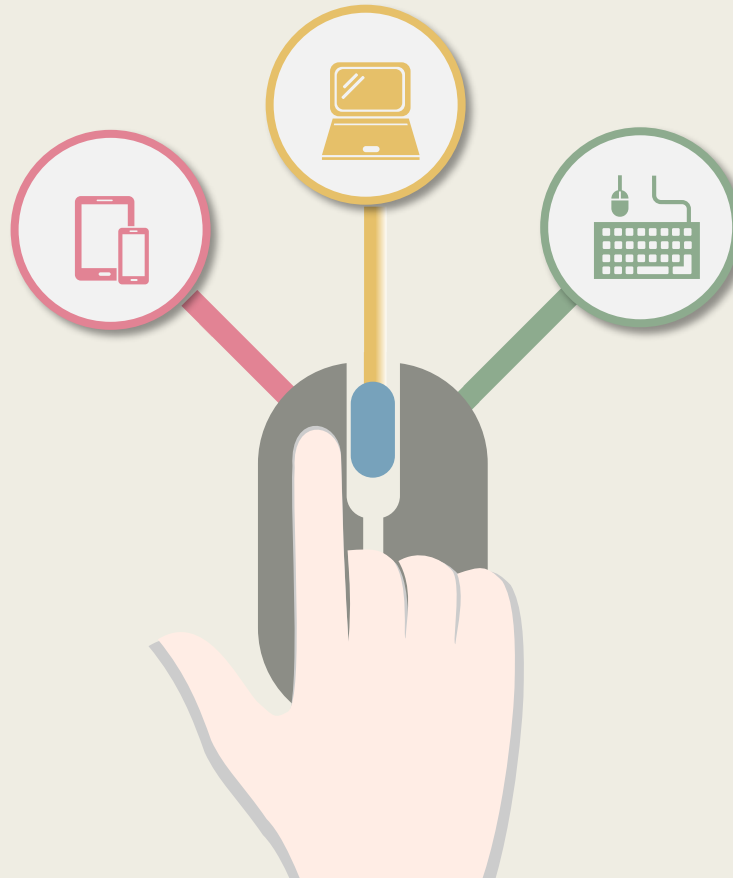
Use Cases

MANAGERS

Can know the average occupancy rate for a specific time and hotel

CUSTOMERS

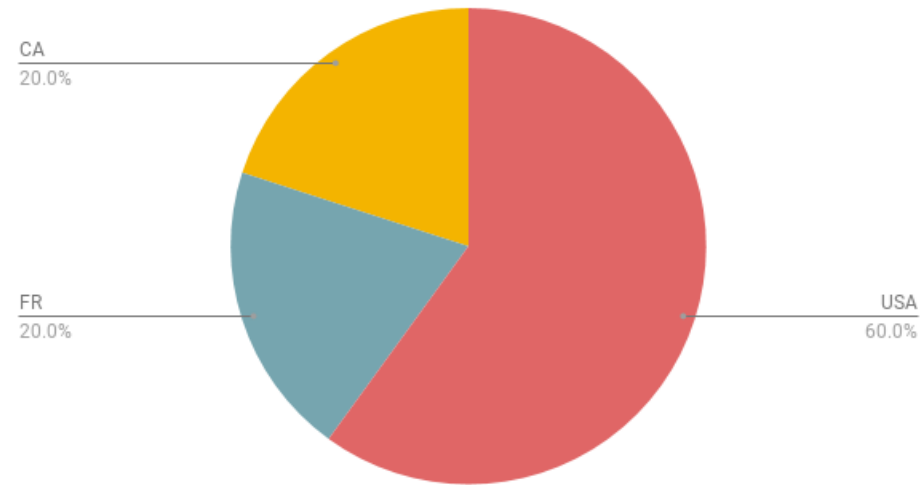Can check their reservation confirmations and history.

RESERVATION STAFF

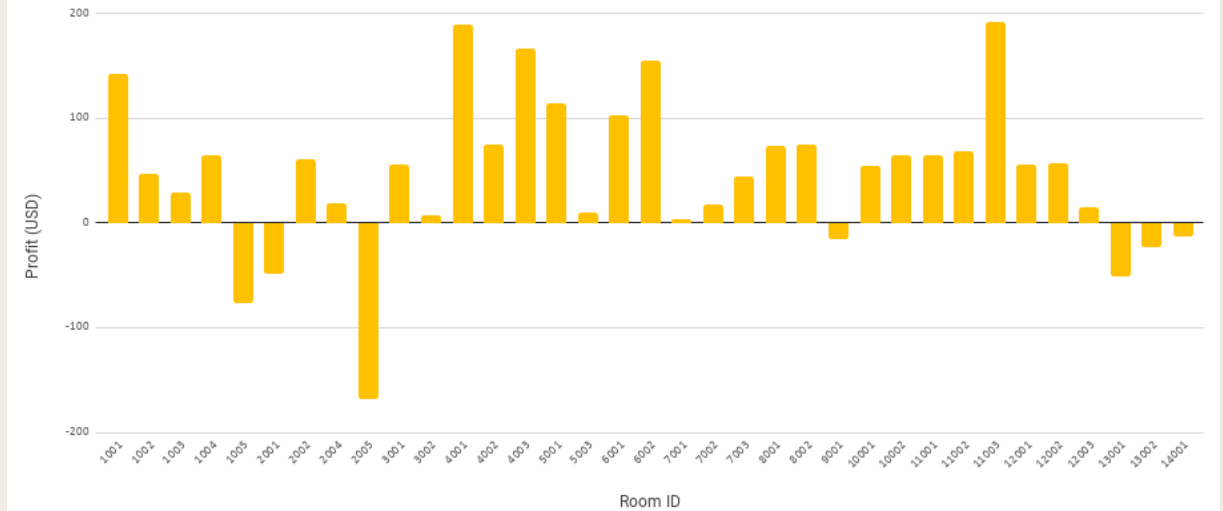Can check how many rooms are available for a specific day or period.

Business Metrics

Learnings
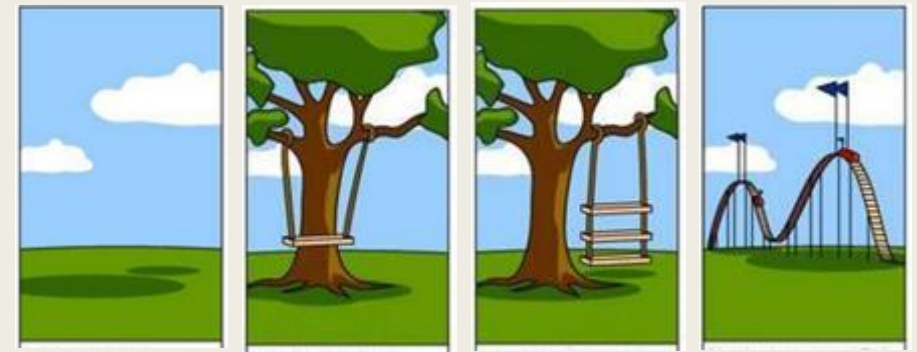
- Importance of capturing business requirements - Organization, processes, stakeholders.

- Scope of the project (be specific).

- Data models, ERD's - how soon it becomes complicated.
  - *should design carefully to remain consistent.*
  - *when to create a new entity ?*
  - *logical grouping, data normalization.*

- Constraints (painful but very helpful !)

- Challenges - Welcome to the real world of DBMS !

  - *Errors - Data Loading error , Query error, Duplicate key error etc.*

  - *Why my triggers are not firing? Forgot to add 'auto-increment' in primary key at the time of creating the table (DDL).*

- To do this project again

  - *Will use Enhanced ER concepts.*

  - *Use python as front end.*

  - *create different logins for different users.*

THANK YOU